



Ultrasol K Plus Acid

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/20/2019

Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : Ultrasol K Plus Acid
Product code : 417_USA

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Fertilizers
Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
Restrictions on use : None known

1.3. Supplier

Supplier

SQM North America
2727 Paces Ferry Rd, Building Two, Suite 1425
Atlanta, GA 30339 - United States
T (770) 916 9400 - F (700) 916 9404
product_safety@sqm.com; spn-northamerica@sqm.com - www.sqm.com

1.4. Emergency telephone number

Emergency number : For Chemical Emergency Call CHEMTREC 24hr/day 7days/week

Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-741-5970
(collect calls accepted)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Oxidizing solids Category 3 May intensify fire; oxidizer
Skin corrosion/irritation Category 2 Causes skin irritation
Serious eye damage/eye irritation Category 1 Causes serious eye damage

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: May intensify fire; oxidizer
Causes skin irritation
Causes serious eye damage

Precautionary statements (GHS US)

: Keep away from heat.
Keep/Store away from clothing and other combustible materials
Take any precaution to avoid mixing with clothing, combustible materials
In case of fire: Use any suitable mean for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water.
Wash hands, forearms and face thoroughly after handling.
Wear protective gloves, eye protection, face protection.
If on skin: Wash with plenty of water
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a poison center or doctor
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

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2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : The product does not meet the PBT and vPvB classification criteria.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Urea phosphate	(CAS-No.) 4861-19-2	1 - 5	Skin Corr. 1B, H314

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : Call a poison center/doctor/physician if you feel unwell. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.
- Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
- Symptoms/effects after skin contact : Causes skin irritation.
- Symptoms/effects after eye contact : Serious damage to eyes.
- Symptoms/effects after ingestion : On ingestion in large quantities: Irritation of the gastric/intestinal mucosa.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically. In the event of inhalation of decomposition products : Symptoms may be delayed.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : use any suitable mean for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water.
- Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

- Fire hazard : May intensify fire; oxidizer.

5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Do not allow into drains or water courses. Do not allow to enter into surface water or drains.

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6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Do not absorb with saw-dust or any other combustible absorbent material. Mechanically recover the product. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Incompatible materials: Reducing agents, flammable materials, Combustible materials. Keep container closed when not in use. Store in a well-ventilated place.
- Incompatible materials : Flammable or combustible materials. reducing materials. strong acids.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Urea phosphate (4861-19-2)

Not determined

- Additional information : There exist no exposure limits for this material

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Effective contaminant extraction. Training staff on good practice. Management/supervision in place to check that RMMs on place are being used correctly and OCs followed.
- Environmental exposure controls : Do not allow to enter drains or water courses.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Solid
- Appearance : Crystalline powder.
- Color : White
- Odor : odorless
- Odor threshold : Not applicable
- pH : No data available
- Melting point : No data available
- Freezing point : Not applicable

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Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: Not applicable
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: Not applicable
Vapor pressure at 50 °C	: Not applicable
Relative vapor density at 20 °C	: Not applicable
Relative density	: Not applicable
Solubility	: Soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: Not applicable
Explosion limits	: Not applicable
Explosive properties	: Not explosive.
Oxidizing properties	: Oxidizer. Test O.1 Test for oxidizing solids.

9.2. Other information

Additional information : None

SECTION 10: Stability and reactivity

10.1. Reactivity

May cause or intensify fire; oxidizer.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Combustible materials. flammable materials. Reducing agents. strong acids. Flammable, combustible, strong acids and strong reducing agents under specific conditions. These incompatible materials shall not include approved packaging materials, pallets, or other dunnage (NFPA 400/2016, Hazardous Materials Code, item 15.3.5.2.1.1).

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. thermal decomposition may produce : Nitrogen oxides. Nitrites. Phosphorus oxides. Potassium oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Urea phosphate (4861-19-2)	
LD50 oral rat	2600 mg/kg body weight (OECD 423 method)
ATE US (oral)	2600 mg/kg body weight

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

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IARC group	Not listed

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Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified

Urea phosphate (4861-19-2)	
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight/day (OECD 422 method)
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: On ingestion in large quantities: Irritation of the gastric/intestinal mucosa.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Ecology - water	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Urea phosphate (4861-19-2)	
LC50 fish 1	> 9100 mg/l (Published data)
EC50 Daphnia 1	> 100 mg/l EU C.2 / (OECD 202 method)

12.2. Persistence and degradability

Ultrazol K Plus Acid	
Persistence and degradability	Contains no substances known to be hazardous to the environment.
Urea phosphate (4861-19-2)	
Persistence and degradability	Persistence and degradability.

12.3. Bioaccumulative potential

Ultrazol K Plus Acid	
Bioaccumulative potential	Low bioaccumulation potential.
Urea phosphate (4861-19-2)	
Log Pow	-1.73 at 68°F
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

Ultrazol K Plus Acid	
Ecology - soil	Expected to be highly mobile in soil.
Urea phosphate (4861-19-2)	
Ecology - soil	Product adsorbs little onto the soil.

12.5. Other adverse effects

Other adverse effects	: May cause eutrophication at very low concentration.
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SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste)	: Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions. Solid waste exhibiting the characteristic of ignitability has the EPA Hazardous Waste Number of D001 according to the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

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Additional information	: Perchlorate containing product - Special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate and section 15 for more information regarding California State regulations.
Ecology - waste materials	: Do not allow to enter drains or water courses. Do not allow material to contaminate surface water system.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description	: UN1486 Potassium nitrate (MIXTURE), 5.1, III
UN-No.(DOT)	: UN1486
Proper Shipping Name (DOT)	: Potassium nitrate MIXTURE
Class (DOT)	: 5.1 - Class 5.1 - Oxidizer 49 CFR 173.128
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 5.1 - Oxidizer



DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213
DOT Packaging Bulk (49 CFR 173.xxx)	: 240
DOT Special Provisions (49 CFR 172.102)	: A1 - Single packaging are not permitted on passenger aircraft. A29 - Combination packaging consisting of outer expanded plastic boxes with inner plastic bags are not authorized for transportation by aircraft. B120 - The use of flexible bulk containers conforming to the requirements in subpart R and subpart S of part 178 of this subchapter is permitted. IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter. W1 - This substance in a non friable prill or granule form is not subject to the requirements of this subchapter when tested in accordance with the UN Manual of Test and Criteria (IBR, see §171.7 of this subchapter) and is found to not meet the definition or criteria for inclusion in Division 5.1.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 152
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 25 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 100 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Emergency Response Guide (ERG) Number	: 140
Other information	: No supplementary information available.
IBC code	: Not applicable.

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Transportation of Dangerous Goods

Transport document description	: UN1486 POTASSIUM NITRATE (MIXTURE), 5.1, III
UN Number	: UN1486
Proper Shipping Name (Transportation of Dangerous Goods)	: POTASSIUM NITRATE
TDG Primary Hazard Classes	: 5.1 - Class 5.1 - Oxidizing Substances
Packing group	: III - Minor Danger
Explosive Limit and Limited Quantity Index	: 5 kg
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 25 kg

Transport by sea

Transport document description (IMDG)	: UN 1486 POTASSIUM NITRATE (MIXTURE), 5.1, III
UN-No. (IMDG)	: 1486
Proper Shipping Name (IMDG)	: POTASSIUM NITRATE
Class (IMDG)	: 5.1 - Oxidizing substances
Packing group (IMDG)	: III - substances presenting low danger

Air transport

Transport document description (IATA)	: UN 1486 Potassium nitrate (MIXTURE), 5.1, III
UN-No. (IATA)	: 1486
Proper Shipping Name (IATA)	: Potassium nitrate
Class (IATA)	: 5.1 - Oxidizing Substances
Packing group (IATA)	: III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

Urea phosphate (4861-19-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Potassium nitrate (7757-79-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed in DHS (Department of Homeland Security) United States - Chemical of Interest (Appendix A to 6CFR part 27)	
SARA Section 311/312 Hazard Classes	Physical hazard - Oxidizer (liquid, solid or gas)

15.2. International regulations

CANADA

Urea phosphate (4861-19-2)	
Listed on the Canadian NDSL (Non-Domestic Substances List)	
Potassium nitrate (7757-79-1)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

Urea phosphate (4861-19-2)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Potassium nitrate (7757-79-1)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)- Directive 79/831/EEC, sixth Amendment of Directive 67/548/EEC (dangerous substances)	

National regulations

Urea phosphate (4861-19-2)	
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)	
Listed on the Japanese ISHL (Industrial Safety and Health Law)	
Listed on NZIoC (New Zealand Inventory of Chemicals)	

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Potassium nitrate (7757-79-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

Potassium nitrate (7757-79-1)

U.S. - California - Proposition 65 - Other information	California Code of Regulations Title 22 (Health & Safety Code), Chapter 33 : See http://www.dtsc.ca.gov/hazardouswaste/perchlorate/
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SECTION 16: Other information

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Data sources : REACH registrations.

NFPA 704/2017

NFPA health hazard

NFPA fire hazard

NFPA reactivity

NFPA specific hazard

Other information

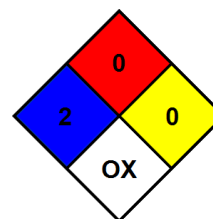
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

: 0 - Material that in themselves are normally stable, even under fire conditions.

: OX - Materials that possess oxidizing properties.

: NFPA 400/2016: Hazardous Materials Code: Oxidizer Class 1 (Inorganics Nitrates).



SDS US (GHS HazCom 2012)

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